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1 DEC 1983

MEMORANDUM FOR: Deputy Director for Intelligence

FROM:

Harry E. Fitzwater

Deputy Director for Administration

SUBJECT:

Use of Dynamic Simulation Modeling in the Directorate of

Intelligence

is well along in development.

Prob.

1. The attached item which appeared in the November 11 issue of <u>Science</u> has an interesting background.

STAT	demonstration on gl	lobal modeling by		for a capacity	
	Intelligence Commun	nity audience in the	auditorium.	This presentation of the	
STAT	work, tog	gether with similar p			
STAT	and	were intended to st	imulate Agen	cy interest in the further	
			simulation.	Progress in this area has	
	been limited in sco	ope and slow.	•		
	3. DoD attend	dees of the System Dy	namics Cours	e at the OTE Information	

While I was the Director of Training, we arranged a presentation/

3. DoD attendees of the System Dynamics Course at the OTE Information
Science Center were encouraged by Lieutenant General Elder, then J-5, to obtain
STAT the ______ model and install it at SAGA. The model was to be used to improve the quality and logical consistency of scenarios developed for the JCS, and the item attests to their continued interest and improvements in the model.

4. Over the years, several system dynamics applications, e.g. a model dealing with the prospects for PRC oil exports and PRC population and another treating Egypt's impending food/population problems, have been developed in the STAT Agency. A long-time proponent of system dynamics, has developed models for me addressing topics ranging from personnel recruiting to FOIA request response. He is currently working on a simulation model for assessing policy alternatives in controlling traffic after the new building is STAT completed. At the request of he has recently completed a model of heroin supply/demand in the United States which establishes some novel and important relationships in this system. It also predicts accurately heroin addict population and heroin related deaths as well as heroin purity and price. A model to estimate the amounts of money that must be laundered in the United

5. In spite of this encouraging progress, I believe we lag in appreciating fully and applying broadly the contributions this kind of modeling technique can make in integrating the expertise, knowledge, and data available to our analysts

States by trafficers in heroin, cocaine, hashish, marijuana, and synthetic drugs

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3-5000

SUBJECT: Use of Dynamic Simulation Modeling in the Directorate of Intelligence

in producing better intelligence. The logical consistency which would be derived through the use of a global model would improve the quality of our products. Improvements in clarity could be expected if analysts made their mental models explicit—a prerequisite to any modeling process.

5. I think the Agency is missing a bet in this area through lack of interest and wish we could stimulate more interest. If you would like to discuss this subject, Ray and I are available at your convenience.

STAT

Harry F. Fitzwater

Attachment

cc: DDCI w/att

STAT_{J/DDA} (25 Nov 83)

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